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Drinking Water Surveillance Program

DESERONTO WATER TREATMENT PLANT

Annual Report 1989

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DESERONTO
WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

DESERONTO WATER TREATMENT PLANT
1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 supplies being monitored.

The Deseronto Water Treatment Plant is a conventional treatment plant that treats water from the Bay of Quinte. The treatment process consists of coagulation, flocculation, sedimentation, filtration, and disinfection. Carbon contactors are used for taste and odour control as necessary. This plant has a design capacity of 2.9 x 1000 m^3/day and serves a population of 2,000.

Water samples of the raw and treated water from the plant and from one distribution system site were taken monthly. The Deseronto Water Treatment Plant was sampled monthly, for approximately 180 parameters. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analysed in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below any applicable health related ODWOs.

Of a total of approximately 110 Organic parameters tested on a monthly basis, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Deseronto Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP

SUMMARY TABLE BY SCAN

SCAN	RAW TESTS	RAW POSITIVE	RAW %POSITIVE	TREATED TESTS	TREATED POSITIVE	TREATED %POSITIVE	SITE 1 TESTS	SITE 1 POSITIVE	SITE 1 %POSITIVE
BACTERIOLOGICAL	39	25	64	36	7	19	36	2	5
CHEMISTRY (FLD)	39	39	100	70	70	100	120	119	99
CHEMISTRY (LAB)	273	246	90	248	181	72	443	386	87
METALS	289	164	56	265	114	43	564	287	50
CHLOROAROMATICS	182	0	0	154	0	0	154	0	0
CHLOROPHENOLS	12	0	0	12	0	0	.	.	.
PAH	203	0	0	188	0	0	17	0	0
PESTICIDES & PCB	442	0	0	387	0	0	322	0	0
PHENOLICS	13	11	84	12	8	66	.	.	.
SPECIFIC PESTICIDES	67	0	0	65	0	0	11	0	0
VOLATILES	348	0	0	348	37	10	348	37	10
TOTAL	1907	485		1785	417		2015	831	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM

DESERONTO WATER TREATMENT PLANT
1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 supplies being monitored.

The DWSP was initiated at the Deseronto Water Treatment Plant during the fall of 1987. An Annual Report was published for 1987 and 1988 (ISSN 0840-5131).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analysed

PLANT DESCRIPTION

The Deseronto Water Treatment Plant treats water from the Bay of Quinte. The process consists of coagulation, flocculation, sedimentation, filtration and disinfection. Flocculation and sedimentation is achieved through the use of an upflow clarifier. Two granular activated carbon contactors are used following conventional treatment, to eliminate taste and odour problems. The carbon contactors can be by-passed. The plant has a design capacity of 2.9 x 1000 m^3/day and sample day flows ranging from 1.0 x 1000 m^3/day to 2.0 x 1000 m^3/day. This plant serves a population of 2,000.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on parameters for process control (Table 1).

The Deseronto Water Treatment Plant and distribution system site were sampled for approximately 180 parameters on a monthly basis. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polynuclear Aromatic Hydrocarbons and

Phenolics are only analysed in the raw and treated water at the plant. As of August the triazine pesticides were only analyzed in the raw and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered onto the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analysed, by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

DESERONTO WATER TREATMENT PLANT

FIGURE 2

DESERONTO WTP

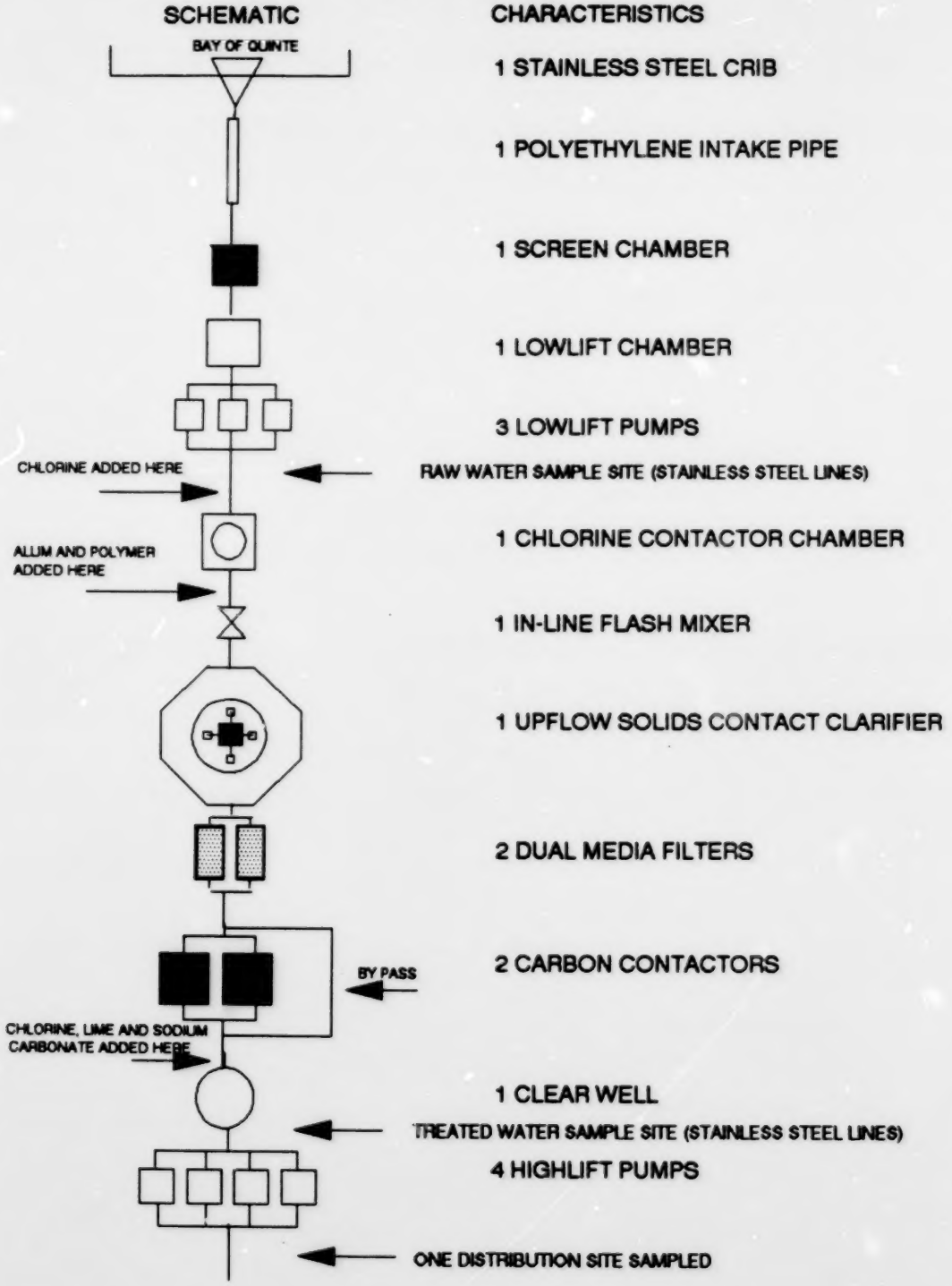

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING DESERONTO WATER TREATMENT PLANT 1989

PARAMETER	LOCATION	FREQUENCY
Aluminum residual	Top of clarifier	monthly
Chlorine residual - free	Treated tap	daily
	Supply line	continuous
total	Treated tap	daily
Colour	Raw water	weekly
	Treated tap	weekly
pH	Raw water	daily
	Treated tap	continuous
		daily
Temperature	Treated tap	daily
Turbidity	Raw water	daily
	Treated tap	continuous
		daily

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

DESERONTO WATER TREATMENT PLANT

LOCATION:	WATER STREET, PO BOX 500 DESERONTO, ONTARIO (613-396-3436)
SOURCE:	RAW WATER SOURCE - BAY OF QUINTE
RATED CAPACITY:	2.9 (1000 M^3/DAY)
OPERATION:	MINISTRY OF ENVIRONMENT
PLANT SUPERINTENDENT:	J.M. LEWIS
MINISTRY REGION:	SOUTHEASTERN
DISTRICT OFFICER:	J. BISHOP

MUNICIPALITY SERVED	POPULATION
DESERONTO	1,849
TYENDINAGA RESERVE	500

one occasion.

Table 6 lists all parameters analysed in the DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, which are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS) recently published (ISBN 0-7729-4461-x) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occuring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS

WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Results for treated and distributed water indicate that no applicable health related guidelines were exceeded.

Bacteriology

Standard Plate Count

The ODWO for Standard Plate Count of 500 counts/mL was exceeded, twice in the treated water, in July and August.

Inorganic and Physical Parameters

Colour

The aesthetic ODWO of 5.0 True Colour Units was exceeded in the May treated water sample.

Aluminum

The plant operational guideline of 100 µg/L as Al in the treated water leaving the plant was exceeded once in the treated water.

Organic Parmaeters

Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the

water treatment process and will always occur in chlorinated waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, ranging from 35.4 to 105 µg/L were well below the ODWO of 350 µg/L.

CONCLUSIONS

The Deseronto Water Treatment Plant for the sample year of 1989 produced good quality water at the plant and this was maintained in the distribution system.

No health related guidelines, for bacteriological, inorganic or organic parameters, were exceeded during 1989.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP SAMPLE DAY CONDITIONS FOR 1989

	SAMPLE DAY CONDITIONS		TREATMENT CHEMICAL DOSAGES (MG/L)				
DATE	DELAY TIME(HRS)	FLOW (1000M3)	PRE-CHLORINATION CHLORINE	POST-CHLORINATION CHLORINE	COAGULATION ALUM LIQUID	COAGULATION AID POLYELECTROLYTE	POST PH ADJUSTMEN SODIUM CARBONATE
JAN 04	10.9	1.3	.	2.02	40.00	.07	.50
FEB 07	9.7	1.2	.	1.89	40.00	.07	.50
MAR 07	9.8	1.2	.	1.49	40.00	.07	.50
APR 04	8.4	1.0	.	2.64	40.00	.10	.50
APR 27	4.0	1.0	.	2.49	39.70	.10	.50
MAY 02	9.8	1.2	.	2.24	40.00	.10	.50
JUN 06	10.9	1.3	.	2.40	40.00	.10	.50
JUL 05	7.1	2.0	.	5.20	40.00	.10	.50
AUG 09	7.4	1.3	.	2.74	40.00	.10	.50
SEP 06	60.8	1.1	1.60	2.30	40.00	.10	.50
OCT 03	7.0	1.3	.	1.95	40.00	.10	.50
NOV 07	16.5	1.2	.	3.76	40.70	.18	.50
DEC 05	14.9	1.3	.	1.80	41.70	.10	.50

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	13	4	0	.	.	.	.	.	.
	STANDRD PLATE CNT MF	.	.	.	12	5	0	12	2	0
	TOTAL COLIFORM MF	13	8	0	12	0	0	12	0	0
	T COLIFORM BCKGRD MF	13	13	0	12	2	0	12	0	0
*TOTAL SCAN BACTERIOLOGICAL		39	25	0	36	7	0	36	2	0
*TOTAL GROUP BACTERIOLOGICAL		39	25	0	36	7	0	36	2	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	11	11	0	24	24	0
	FLD CHLORINE FREE	.	.	.	12	12	0	24	23	0
	FLD CHLORINE (TOTAL)	1	1	0	11	11	0	24	24	0
	FLD PH	13	13	0	12	12	0	24	24	0
	FLD TEMPERATURE	13	13	0	12	12	0	24	24	0
	FLD TURBIDITY	12	12	0	12	12	0	.	.	.
*TOTAL SCAN CHEMISTRY (FLD)		39	39	0	70	70	0	120	119	0
CHEMISTRY (LAB)	ALKALINITY	13	13	0	12	12	0	24	24	0
	CALCIUM	13	13	0	12	12	0	24	24	0
	CYANIDE	13	1	0	12	1	0	12	0	0
	CHLORIDE	13	13	0	12	12	0	24	24	0
	COLOUR	13	13	0	12	8	4	24	22	2
	CONDUCTIVITY	13	13	0	12	12	0	24	24	0

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
CHEMISTRY (LAB)	FLUORIDE	13	13	0	12	7	5	24	15	9
	HARDNESS	13	13	0	12	12	0	24	24	0
	IONCAL	13	13	0	12	12	0	24	24	0
	LANGELIERS INDEX	13	13	0	10	10	0	23	23	0
	MAGNESIUM	13	13	0	12	12	0	24	24	0
	SODIUM	13	13	0	12	12	0	24	24	0
	AMMONIUM TOTAL	13	8	3	12	1	7	24	14	6
	NITRITE	13	12	1	12	0	9	24	1	22
	TOTAL NITRATES	13	12	1	12	12	0	24	24	0
	NITROGEN TOT KJELD	13	13	0	11	11	0	24	24	0
	PH	13	13	0	12	12	0	24	24	0
	PHOSPHORUS FIL REACT	13	5	4	12	0	4	.	.	.
	PHOSPHORUS TOTAL	13	13	0	11	1	10	.	.	.
	SULPHATE	13	13	0	12	12	0	24	24	0
	TURBIDITY	13	13	0	12	10	2	24	23	1
*TOTAL SCAN CHEMISTRY (LAB)		273	246	9	248	181	41	443	386	40
METALS	SILVER	12	0	1	11	0	4	24	0	11
	ALUMINUM	12	12	0	11	11	0	24	24	0
	ARSENIC	12	10	2	11	4	7	24	9	15
	BARIUM	12	12	0	11	11	0	24	24	0
	BORON	12	8	4	11	4	7	24	9	15
	BERYLLIUM	12	1	6	11	0	6	24	0	11

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
METALS	CADMIUM	12	0	1	11	0	1	24	1	11
	COBALT	12	0	12	11	0	11	24	0	24
	CHROMIUM	12	6	6	11	3	5	24	7	10
	COPPER	12	7	5	11	4	7	24	24	0
	IRON	12	11	1	11	1	9	24	12	7
	MERCURY	13	1	6	12	0	8	12	9	0
	MANGANESE	12	12	0	11	11	0	24	24	0
	MOLYBDENUM	12	6	6	11	6	5	24	11	13
	NICKEL	12	0	12	11	0	8	24	10	11
	LEAD	12	12	0	11	11	0	24	22	2
	ANTIMONY	12	12	0	11	11	0	24	24	0
	SELENIUM	12	0	7	11	0	4	24	0	13
	STRONTIUM	12	12	0	11	11	0	24	24	0
	TITANIUM	12	12	0	11	11	0	24	24	0
	THALLIUM	12	0	4	11	0	2	24	0	7
	URANIUM	12	11	1	11	1	7	24	2	16
	VANADIUM	12	7	5	11	3	8	24	3	21
	ZINC	12	12	0	11	11	0	24	24	0
*TOTAL SCAN METALS		289	164	79	265	114	99	564	287	187
*TOTAL GROUP INORGANIC & PHYSICAL		601	449	88	583	365	140	1127	792	227
CHLOROAROMATICS	HEXACHLOROBUTADIENE	13	0	0	11	0	0	11	0	0
	123 TRICHLOROBENZENE	13	0	0	11	0	0	11	0	0

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
CHLOROAROMATICS	1234 T-CHLOROBENZENE	13	0	0	11	0	0	11	0	0
	1235 T-CHLOROBENZENE	13	0	0	11	0	0	11	0	0
	124 TRICHLOROBENZENE	13	0	0	11	0	0	11	0	0
	1245 T-CHLOROBENZENE	13	0	0	11	0	0	11	0	0
	135 TRICHLOROBENZENE	13	0	0	11	0	0	11	0	0
	HCB	13	0	0	11	0	1	11	0	0
	HEXACHLOROETHANE	13	0	0	11	0	0	11	0	0
	OCTACHLOROSTYRENE	13	0	0	11	0	0	11	0	0
	PENTACHLOROBENZENE	13	0	0	11	0	0	11	0	0
	236 TRICHLOROTOLUENE	13	0	0	11	0	0	11	0	0
	245 TRICHLOROTOLUENE	13	0	0	11	0	0	11	0	0
	26A TRICHLOROTOLUENE	13	0	0	11	0	0	11	0	0
*TOTAL SCAN CHLOROAROMATICS		182	0	0	154	0	1	154	0	0
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	2345 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.
	2356 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.
	245-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	246-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	PENTACHLOROPHENOL	2	0	0	2	0	0	.	.	.
*TOTAL SCAN CHLOROPHENOLS		12	0	0	12	0	0	0	0	0

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PAH	PHENANTHRENE	13	0	0	12	0	0	1	0	0
	ANTHRACENE	13	0	0	12	0	0	1	0	0
	FLUORANTHENE	13	0	0	12	0	0	1	0	0
	PYRENE	13	0	0	12	0	0	1	0	0
	BENZO(A)ANTHRACENE	13	0	0	12	0	0	1	0	0
	CHRYSENE	13	0	0	12	0	0	1	0	0
	DIMETH. BENZ(A)ANTHR	3	0	0	3	0	0	1	0	0
	BENZO(E) PYRENE	13	0	0	12	0	0	1	0	0
	BENZO(B) FLUORANTHEN	13	0	0	12	0	0	1	0	0
	PERYLENE	13	0	0	12	0	0	1	0	0
	BENZO(K) FLUORANTHEN	13	0	0	12	0	0	1	0	0
	BENZO(A) PYRENE	5	0	0	5	0	0	1	0	0
	BENZO(G,H,I) PERYLEN	13	0	0	12	0	0	1	0	0
	DIBENZO(A,H) ANTHRAC	13	0	0	12	0	0	1	0	0
	INDENO(1,2,3-C,D) PY	13	0	0	12	0	0	1	0	0
	BENZO(B) CHRYSENE	13	0	0	12	0	0	1	0	0
	CORONENE	13	0	0	12	0	0	1	0	0
*TOTAL SCAN PAH		203	0	0	188	0	0	17	0	0
PESTICIDES & PCB	ALDRIN	13	0	0	11	0	0	11	0	0
	ALPHA BHC	13	0	3	11	0	0	11	0	0
	BETA BHC	13	0	0	11	0	0	11	0	0
	LINDANE	13	0	0	11	0	0	11	0	0

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	ALPHA CHLORDANE	13	0	0	11	0	0	11	0	0
	GAMMA CHLORDANE	13	0	0	11	0	0	11	0	0
	DIELDRIN	13	0	0	11	0	0	11	0	0
	METHOXYCHLOR	13	0	0	11	0	0	11	0	0
	ENDOSULFAN 1	13	0	0	11	0	0	11	0	0
	ENDOSULFAN II	13	0	0	11	0	0	11	0	0
	ENDRIN	13	0	0	11	0	0	11	0	0
	ENDOSULFAN SULPHATE	13	0	0	11	0	0	11	0	0
	HEPTACHLOR EPOXIDE	13	0	0	11	0	0	11	0	0
	HEPTACHLOR	13	0	0	11	0	0	11	0	0
	MIREX	13	0	0	11	0	0	11	0	0
	OXYCHLORDANE	13	0	0	11	0	0	11	0	0
	OPDDT	13	0	0	11	0	0	11	0	0
	PCB	13	0	0	11	0	0	11	0	0
	DDD	13	0	0	11	0	0	11	0	0
	PPDDE	13	0	0	11	0	0	11	0	0
	PPDDT	13	0	0	11	0	0	11	0	0
	AMETRINE	13	0	0	12	0	0	7	0	0
	ATRAZINE	13	0	0	12	0	0	7	0	0
	ATRATONE	13	0	0	12	0	0	7	0	0
	CYANAZINE (BLADEX)	13	0	0	12	0	0	7	0	0
	D-ETHYL ATRAZINE	13	0	0	12	0	0	7	0	0
	D-ETHYL SIMAZINE	13	0	0	12	0	0	7	0	0
	PROMETONE	13	0	0	12	0	0	7	0	0
	PROPAZINE	13	0	0	12	0	0	7	0	0

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SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	PROMETRYNE	13	0	0	12	0	0	7	0	0
	METRIBUZIN (SENCOR)	13	0	0	12	0	0	7	0	0
	SIMAZINE	13	0	0	12	0	0	7	0	0
	ALACHLOR (LASSO)	13	0	0	12	0	0	7	0	0
	METOLACHLOR	13	0	0	12	0	0	7	0	0
*TOTAL SCAN PESTICIDES & PCB		442	0	3	387	0	0	322	0	0
PHENOLICS	PHENOLICS	13	11	2	12	8	4	0	0	0
*TOTAL SCAN PHENOLICS		13	11	2	12	8	4	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	13	0	0	11	0	0	11	0	0
	2,4,5-T	2	0	0	2	0	0	.	.	.
	2,4-D	2	0	0	2	0	0	.	.	.
	2,4-DB	2	0	0	2	0	0	.	.	.
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	.	.	.
	DICAMBA	2	0	0	2	0	0	.	.	.
	PICHLORAM	0	0	0	0	0	0	.	.	.
	SILVEX	2	0	0	2	0	0	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.
	DICHLOROVOS	2	0	0	2	0	0	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
SPECIFIC PESTICIDES	ETHION	2	0	0	2	0	0	.	.	.
	AZINPHOS-METHYL	1	0	0	1	0	0	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.
	MEVINPHOS	2	0	0	2	0	0	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.
	PHORATE	2	0	0	2	0	0	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.
	RONNEL	2	0	0	2	0	0	.	.	.
	AMINOCARB	1	0	0	1	0	0	.	.	.
	BENOMYL	1	0	0	1	0	0	.	.	.
	BUX	0	0	0	0	0	0	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.
	CICP	2	0	0	2	0	0	.	.	.
	DIALLATE	2	0	0	2	0	0	.	.	.
	EPTAN	1	0	0	1	0	0	.	.	.
	IPC	2	0	0	2	0	0	.	.	.
	PROPOXUR	2	0	0	2	0	0	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.
*TOTAL SCAN SPECIFIC PESTICIDES		67	0	0	65	0	0	11	0	0
VOLATILES	BENZENE	12	0	1	12	0	0	12	0	1

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	TOLUENE	12	0	0	12	0	2	12	0	5
	ETHYLBENZENE	12	0	0	12	0	5	12	0	2
	P-XYLENE	12	0	0	12	0	0	12	0	0
	M-XYLENE	12	0	0	12	0	2	12	0	1
	O-XYLENE	12	0	1	12	0	2	12	0	1
	STYRENE	12	0	4	12	0	6	12	0	7
	1,1 DICHLOROETHYLENE	12	0	0	12	0	0	12	0	0
	METHYLENE CHLORIDE	12	0	0	12	0	0	12	0	0
	T1,2DICHLOROETHYLENE	12	0	0	12	0	0	12	0	0
	1,1 DICHLOROETHANE	12	0	0	12	0	0	12	0	0
	CHLOROFORM	12	0	4	12	12	0	12	12	0
	111, TRICHLOROETHANE	12	0	3	12	0	0	12	0	2
	1,2 DICHLOROETHANE	12	0	0	12	0	0	12	0	0
	CARBON TETRACHLORIDE	12	0	0	12	0	0	12	0	0
	1,2 DICHLOROPROPANE	12	0	0	12	0	0	12	0	0
	TRICHLOROETHYLENE	12	0	0	12	0	0	12	0	0
	DICHLOROBROMOMETHANE	12	0	0	12	12	0	12	12	0
	112 TRICHLOROETHANE	12	0	0	12	0	0	12	0	0
	CHLORODIBROMOMETHANE	12	0	0	12	1	11	12	1	10
	T-CHLOROETHYLENE	12	0	0	12	0	2	12	0	1
	BROMOFORM	12	0	0	12	0	1	12	0	0
	1122 T-CHLOROETHANE	12	0	0	12	0	0	12	0	0
	CHLOROBENZENE	12	0	0	12	0	0	12	0	0
	1,4 DICHLOROBENZENE	12	0	0	12	0	0	12	0	0
	1,3 DICHLOROBENZENE	12	0	0	12	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	1,2 DICHLOROBENZENE	12	0	0	12	0	0	12	0	0
	ETHLYENE DIBROMIDE	12	0	0	12	0	0	12	0	0
	TOTL TRIHALOMETHANES	12	0	1	12	12	0	12	12	0
*TOTAL SCAN VOLATILES		348	0	14	348	37	31	348	37	30
*TOTAL GROUP ORGANIC		1267	11	19	1166	45	36	852	37	30
TOTAL		1907	485	107	1785	417	176	2015	831	257

KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 ^{0}C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria
5. Maximum Contaminant Level Goal (MCLG)

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!IV	No Data: Inverted Septum
!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded

!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UAL	Unreliable: Sample Age Exceeds Normal Limit
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER S RVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
	BACTERIOLOGICAL				
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 0 (A1)
JAN	0	.	.	.	
FEB	2 T48	.	.	.	
MAR	0 T48	.	.	.	
APR	0 T48	.	.	.	
	1	.	.	.	
MAY	0	.	.	.	
JUN	0	.	.	.	
JUL	0	.	.	.	
AUG	0 A3C	.	.	.	
SEP	BDL	.	.	.	
OCT	12	.	.	.	
NOV	4	.	.	.	
DEC	BDL	.	.	.	
STANDRD PLATE CNT MF ( )			DET'N LIMIT =		GUIDELINE =
JAN	.	0 <=>	.	3 <=>	
FEB	.	3 <=>	.	1 <=>	
MAR	.	0 <=>	.	1 <=>	
APR	.	370 T48	.	24 T24	
MAY	.	20 <=>	.	0 <=>	
JUN	.	150	.	2 <=>	
JUL	.	840	.	7 <=>	
AUG	.	24000 >	.	3 <=>	
SEP	.	480	.	400	
OCT	.	BDL	.	20 <=>	
NOV	.	4 <=>	.	1 <=>	
DEC	.	5 <=>	.	0 <=>	
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML(A1)
JAN	72 A3C	0 T48	.	0 T24	
FEB	780 A3C	0 T48	.	0 T24	
MAR	16 T48	0 T48	.	0 T24	
APR	88 A3C	0 T48	.	0 T24	
	80 <=>	.	.	.	
MAY	24 A3C	0 A3C	.	0	
JUN	200	0	.	0	
JUL	BDL	0	.	0	
AUG	400 <=>	0	.	0	
SEP	2000 A3C	0	.	0	
OCT	400 <=>	0	.	0	
NOV	80 <=>	0	.	0	
DEC	540	0	.	0	
T COLIFORM BCKGRD MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = N/A
JAN	8000 A3C	0 T48	.	0 T24	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
FEB	34000 T48	0 T48	.	0 T24
MAR	264 T48	0 T48	.	0 T24
APR	9600 >	0 T48	.	0 T24
	4500 A3C	.	.	.
MAY	9600 >	2400 >	.	0
JUN	40000	6	.	0
JUL	6700 A>	0	.	0
AUG	90000 A3C	0	.	0
SEP	00000 A3C	0	.	0
OCT	31000 A3C	0	.	0
NOV	12800 A3C	0	.	0
DEC	5040	0	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
CHEMISTRY (FLD)					
FLD CHLORINE (COMB) ( )			DET'N LIMIT =		GUIDELINE =
JAN	.	.400	.200	.300	
FEB	.	.300	.100	.200	
MAR	.	.500	.100	.300	
APR	.	.500	.100	.200	
MAY	.	.	.100	.100	
JUN	.	.300	.100	.300	
JUL	.	.300	.100	.300	
AUG	.	.200	.200	.200	
SEP	.	.200	.100	.200	
OCT	.	.200	.100	.400	
NOV	.	.300	.200	.200	
DEC	.	.300	.100	.300	
FLD CHLORINE FREE ( )			DET'N LIMIT =		GUIDELINE =
JAN	.	.500	.100	.300	
FEB	.	.400	.100	.400	
MAR	.	.700	.100	.400	
APR	.	.600	.100	.200	
MAY	.	.500	.100	.300	
JUN	.	.700	.000	.300	
JUL	.	.700	.100	.300	
AUG	.	.800	.100	1.000	
SEP	.	.800	.100	.800	
OCT	.	1.000	.100	.600	
NOV	.	.500	.100	.600	
DEC	.	.900	.300	.500	
FLD CHLORINE (TOTAL) ( )			DET'N LIMIT =		GUIDELINE =
JAN	.	.900	.300	.600	
FEB	.	.700	.200	.600	
MAR	.	1.200	.200	.700	
APR	.	1.100	.200	.400	
MAY	.	.	.200	.400	
JUN	.	1.000	.100	.600	
JUL	.	1.000	.200	.600	
AUG	.	1.000	.300	1.200	
SEP	.100	1.000	.200	1.000	
OCT	.	1.200	.200	1.000	
NOV	.	.800	.300	.800	
DEC	.	1.200	.400	.800	
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)
JAN	7.650	6.850	7.400	7.200	
FEB	7.550	6.650	7.500	7.400	
MAR	7.820	6.740	7.400	7.200	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
APR	7.640	6.710	7.200	7.200	
	7.700	.	.	.	
MAY	7.850	7.670	7.400	7.500	
JUN	7.690	6.750	7.200	7.000	
JUL	7.000	6.700	7.400	7.200	
AUG	8.010	7.750	7.400	7.450	
SEP	8.100	7.000	7.400	7.200	
OCT	8.590	7.050	7.200	7.400	
NOV	8.200	7.900	7.200	7.000	
DEC	8.120	7.150	7.400	7.200	
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A1)
JAN	2.000	3.000	14.000	4.000	
FEB	1.000	2.000	17.000	2.000	
MAR	4.000	7.000	16.000	4.000	
APR	4.000	4.000	12.000	6.000	
	10.000	.	.	.	
MAY	10.000	11.000	18.000	11.000	
JUN	19.000	19.000	19.000	19.000	
JUL	20.000	22.000	23.000	22.000	
AUG	21.000	22.000	19.000	21.000	
SEP	21.000	21.000	21.000	21.000	
OCT	16.000	17.000	19.000	17.000	
NOV	9.000	10.000	19.000	11.000	
DEC	2.000	3.000	14.000	5.000	
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)
JAN	.900	.200	.	.	
FEB	1.180	.220	.	.	
MAR	1.300	.190	.	.	
APR	1.400	.160	.	.	
MAY	1.900	.700	.	.	
JUN	2.300	.100	.	.	
JUL	3.300	.700	.	.	
AUG	3.900	.500	.	.	
SEP	2.300	.100	.	.	
OCT	4.300	.400	.	.	
NOV	3.800	.200	.	.	
DEC	1.700	.200	.	.	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
CHEMISTRY (LAB)					
ALKALINITY (MG/L)			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)
JAN	111.400	88.100	88.700	88.000	
FEB	105.700	87.200	88.300	87.400	
MAR	109.900	84.100	85.900	86.700	
APR	92.300	72.100	73.800	72.100	
	86.100	.	.	.	
MAY	88.800	82.400	80.700	78.700	
JUN	97.700	75.600	76.300	76.100	
JUL	102.300	80.300	80.900	80.200	
AUG	106.400	85.500	86.500	85.600	
SEP	98.900	81.900	78.100	79.000	
OCT	103.500	80.000	80.400	80.500	
NOV	109.900	85.800	86.800	86.800	
DEC	117.100	90.100	91.200	91.100	
CALCIUM (MG/L)			DET'N LIMIT = .100		GUIDELINE = 100 (F2)
JAN	43.800	41.400	44.200	45.400	
FEB	41.600	41.400	42.000	41.000	
MAR	44.600	41.800	43.000	43.800	
APR	38.400	38.800	39.000	38.400	
	36.400	.	.	.	
MAY	36.200	35.800	35.600	40.800	
JUN	40.400	40.400	40.800	40.000	
JUL	41.800	42.000	42.200	41.400	
AUG	37.800	37.400	39.200	38.600	
SEP	39.600	41.600	40.400	39.200	
OCT	40.200	41.000	40.800	40.800	
NOV	42.400	42.800	41.800	42.200	
DEC	50.000	49.200	50.400	49.800	
CYANIDE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = .200 (A1)
JAN	BDL	BDL	.	BDL	
FEB	BDL	BDL	.	BDL	
MAR	BDL	BDL	.	BDL	
APR	.014	.008	.	BDL	
	BDL	.	.	.	
MAY	BDL	BDL	.	BDL	
JUN	BDL	BDL	.	BDL	
JUL	BDL	BDL	.	BDL	
AUG	BDL	BDL	.	BDL	
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	
CHLORIDE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 250 (A3)
JAN	10.200	12.200	12.400	12.000	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
FEB	13.800	15.100	15.400	15.400	
MAR	15.500	15.400	16.300	16.600	
APR	12.700	14.500	14.900	14.700	
	8.600	.	.	.	
MAY	8.600	11.200	11.200	10.900	
JUN	9.500	10.900	11.200	11.000	
JUL	12.800	12.100	13.200	12.600	
AUG	18.500	15.200	19.500	19.000	
SEP	9.900	13.800	13.900	13.800	
OCT	10.600	14.400	14.000	13.000	
NOV	11.100	15.900	15.300	15.100	
DEC	11.400	14.100	14.400	14.400	
COLOUR (HZU)			DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)
JAN	13.000	2.500	4.000	2.500	
FEB	19.000	2.500	5.000	3.000	
MAR	21.500	3.000	5.000	3.500	
APR	22.000	2.500	5.000	2.500	
	19.500	.	.	.	
MAY	11.000	8.000	8.000	3.500	
JUN	14.500	2.000 <T	5.000	2.500	
JUL	15.000	3.000	5.500	3.000	
AUG	7.500	1.500 <T	6.000	1.000 <T	
SEP	14.500	2.000 <T	7.000	2.000 <T	
OCT	15.000	1.500 <T	9.000	2.500	
NOV	13.000	2.500	4.500	3.000	
DEC	24.500	3.500	5.000	4.000	
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)
JAN	276	289	291	287	
FEB	285	296	298	296	
MAR	301	292	299	302	
APR	258	268	272	269	
	234	.	.	.	
MAY	238	241	251	254	
JUN	249	261	263	262	
JUL	272	271	277	271	
AUG	306	286	316	312	
SEP	247	269	265	264	
OCT	258	271	271	268	
NOV	272	287	286	284	
DEC	295	299	304	302	
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)
JAN	.080	.060	.040 <T	.080	
FEB	.080	.080	.080	.060	
MAR	.080	.060	.060	.060	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	.060	.040 <T	.040 <T	.040 <T
	.060	.	.	.
MAY	.060	.060	.080	.060
JUN	.080	.040 <T	.040 <T	.040 <T
JUL	.080	.060	.060	.040 <T
AUG	.100	.040 <T	.020 <T	.040 <T
SEP	.080	.080	.060	.060
OCT	.080	.060	.060	.060
NOV	.080	.040 <T	.060	.060
DEC	.080	.040 <T	.060	.040 <T
HARDNESS (MG/L)			DET'N LIMIT = .500	GUIDELINE = 80-100 (A4)
JAN	131.000	124.000	131.000	135.000
FEB	125.000	125.000	125.000	124.000
MAR	136.000	125.000	129.000	132.000
APR	113.000	113.000	114.000	113.000
	108.000	.	.	.
MAY	108.000	108.000	107.000	120.000
JUN	120.000	119.000	120.000	119.000
JUL	127.000	124.000	125.000	123.000
AUG	123.000	115.000	124.000	123.000
SEP	117.000	122.000	119.000	116.000
OCT	118.000	120.000	120.000	120.000
NOV	126.000	128.000	125.000	125.000
DEC	146.000	143.000	146.000	145.000
IONCAL (DMNSLESS)			DET'N LIMIT = N/A	GUIDELINE = N/A
JAN	.642	1.230	3.547	6.535
FEB	.080	1.740	1.589	2.743
MAR	2.587	.205	.499	1.161
APR	4.617	5.410	3.540	3.984
	5.183	.	.	.
MAY	2.327	2.146	1.318	9.275
JUN	5.268	3.577	2.765	1.676
JUL	4.914	4.150	4.645	4.425
AUG	7.585	7.810	8.759	8.006
SEP	1.874	1.073	1.113	1.095
OCT	.547	1.106	1.031	1.907
NOV	.362	.231	1.554	.654
DEC	4.676	5.042	5.475	4.967
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A	GUIDELINE = N/A
JAN	.579	.287	.338	.338
FEB	.400	-.030	.051	.067
MAR	.481	.140	.229	.190
APR	.257	.050	.121	.075
	.093	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
MAY	.342	.334	.248	.296	
JUN	.387	.021	.109	.079	
JUL	.173	-.060	.043	-.007	
AUG	.523	.331	.337	.357	
SEP	.365	.295	.184	.126	
OCT	.456	.168	.198	.180	
NOV	.470	.141	.356	.361	
DEC	.650	.368	.522	.467	
MAGNESIUM (MG/L)			DET'N LIMIT = .050		GUIDELINE = 30 (F2)
JAN	5.200	5.100	5.200	5.100	
FEB	5.100	5.300	5.200	5.200	
MAR	6.000	5.100	5.200	5.400	
APR	4.000	4.100	4.000	4.100	
	4.100	.	.	.	
MAY	4.200	4.400	4.400	4.500	
JUN	4.600	4.500	4.400	4.500	
JUL	5.400	4.500	4.900	4.800	
AUG	6.900	5.200	6.400	6.400	
SEP	4.400	4.400	4.500	4.500	
OCT	4.400	4.300	4.400	4.400	
NOV	4.800	5.000	4.900	4.800	
DEC	5.100	4.800	4.900	5.000	
SODIUM (MG/L)			DET'N LIMIT = .200		GUIDELINE = 200 (C3)
JAN	5.600	6.200	6.200	6.200	
FEB	8.000	8.000	8.200	8.200	
MAR	9.000	7.800	7.800	8.200	
APR	8.200	8.200	8.200	8.000	
	4.600	.	.	.	
MAY	4.600	4.600	4.800	5.000	
JUN	5.600	5.600	5.400	5.400	
JUL	7.600	6.800	7.200	7.200	
AUG	9.800	7.600	9.000	9.000	
SEP	5.600	6.400	6.200	6.200	
OCT	5.800	5.800	5.600	5.600	
NOV	6.900	7.300	7.200	7.200	
DEC	6.200	6.000	6.000	6.000	
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)
JAN	.064	.010	.048	.010	
FEB	.058	.008 <T	.030	.010	
MAR	.038	BDL	.026	BDL	
APR	.150	.004 <T	.014	.004 <T	
	.046	.	.	.	
MAY	.005	BDL	.016	.002 <T	
JUN	BDL	.002 <T	.006 <T	BDL	

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
JUL	.006 <T	.004 <T	.014	.004 <T	
AUG	.006 <T	.004 <T	.036	.004 <T	
SEP	.006 <T	.002 <T	.044	.006 <T	
OCT	.026	BDL	.014	BDL	
NOV	BDL	.008 <T	.074	.014	
DEC	.030	BDL	.034	BDL	
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)
JAN	.011	.004 <T	.004 <T	.002 <T	
FEB	.015	.003 <T	.004 <T	.003 <T	
MAR	.013	BDL	.002 <T	BDL	
APR	.034	.002 <T	.003 <T	.001 <T	
	.017	.	.	.	
MAY	.007	.001 <T	.002 <T	.001 <T	
JUN	.017	.003 <T	.003 <T	.003 <T	
JUL	.117	.001 <T	.001 <T	.001 <T	
AUG	.041	.001 <T	.002 <T	.001 <T	
SEP	.068	.003 <T	.005	.002 <T	
OCT	.003 <T	BDL	.002 <T	.001 <T	
NOV	.024	.001 <T	.003 <T	.001 <T	
DEC	.007	BDL	.002 <T	.001 <T	
TOTAL NITRATES (MG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)
JAN	.165	.185	.280	.175	
FEB	.375	.345	.405	.360	
MAR	.380	.375	.440	.385	
APR	.550	.535	.575	.545	
	.315	.	.	.	
MAY	.215	.290	.315	.280	
JUN	.050	.090	.105	.060	
JUL	.265	.145	.245	.150	
AUG	.305	.265	.715	.325	
SEP	.310	.260	.490	.255	
OCT	.005 <T	.075	.095	.070	
NOV	.220	.095	.290	.085	
DEC	.350	.320	.515	.335	
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = .020		GUIDELINE = N/A
JAN	.470	.270	.360	.240	
FEB	.590	.330	.390	.280	
MAR	.660	.340	.400	.330	
APR	.750	.340	.340	.330	
	.580	.	.	.	
MAY	.540	.360	.350	.300	
JUN	.570	.220	.240	.220	
JUL	.650	.260	.300	.260	
AUG	.450	.250	.250	.180	

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
SEP	.860	.280	.360	.270	
OCT	.950	.310	.340	.340	
NOV	.780	.320	.460	.330	
DEC	.640	!!S	.460	.360	
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)
JAN	8.320	8.160	8.180	8.170	
FEB	8.190	7.850	7.920	7.950	
MAR	8.230	8.030	8.100	8.050	
APR	8.130	8.030	8.090	8.060	
	8.010	.	.	.	
MAY	8.250	8.280	8.210	8.210	
JUN	8.210	7.960	8.040	8.020	
JUL	7.970	7.840	7.940	7.900	
AUG	8.360	8.260	8.250	8.280	
SEP	8.190	8.190	8.110	8.060	
OCT	8.260	8.080	8.110	8.090	
NOV	8.230	8.010	8.230	8.230	
DEC	8.320	8.160	8.300	8.250	
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = .0005		GUIDELINE = N/A
JAN	.000 <T	.000 <T	.	.	
FEB	.000	.000	.	.	
MAR	.001 <T	BDL	.	.	
APR	.006	.001 <T	.	.	
	.001 <T	.	.	.	
MAY	BDL	BDL	.	.	
JUN	BDL	BDL	.	.	
JUL	.003	.000 <T	.	.	
AUG	.001 <T	BDL	.	.	
SEP	.003	BDL	.	.	
OCT	.002	BDL	.	.	
NOV	.002	.000 <T	.	.	
DEC	BDL	BDL	.	.	
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)
JAN	.013	.004 <T	.	.	
FEB	.018	.005 <T	.	.	
MAR	.019	.004 <T	.	.	
APR	.030	.005 <T	.	.	
	.022	.	.	.	
MAY	.025	.011	.	.	
JUN	.030	.004 <T	.	.	
JUL	.030	.005 <T	.	.	
AUG	.035	.008 <T	.	.	
SEP	.055	.007 <T	.	.	
OCT	.051	.003 <T	.	.	

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
NOV	.042	.003 <T	.	.	
DEC	.022	115	.	.	
SULPHATE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 500. (A3)
JAN	15.170	32.210	31.860	31.860	
FEB	15.380	33.930	33.610	33.690	
MAR	17.910	34.000	34.600	34.730	
APR	12.210	29.130	29.090	29.140	
	12.220	.	.	.	
MAY	12.720	15.090	20.500	23.990	
JUN	13.480	34.280	34.260	34.680	
JUL	14.510	33.390	33.170	33.010	
AUG	20.520	32.280	38.300	38.460	
SEP	12.270	30.820	30.780	30.630	
OCT	11.460	29.380	29.110	29.330	
NOV	13.170	33.040	31.830	31.950	
DEC	17.080	35.510	35.980	36.300	
TURBIDITY (FTU)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)
JAN	1.330	.360	.640	.330	
FEB	1.270	.230 <T	.590	.870	
MAR	1.600	.590	.610	.370	
APR	.330	.590	.530	.950	
	2.450	.	.	.	
MAY	4.000	.980	.910	.900	
JUN	5.000	.500	.900	.470	
JUL	3.300	.290	.660	.320	
AUG	5.700	.680	1.440	.580	
SEP	2.400	.190 <T	.880	.090 <T	
OCT	8.500	.650	1.100	.500	
NOV	7.200	.380	.580	.220	
DEC	2.600	.530	.370	.480	

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
METALS				
SILVER (UG/L)				DET'N LIMIT = .020 GUIDELINE = 50. (A1)
JAN	BDL	BDL	BDL	BDL
FEB	BDL	BDL	BDL	BDL
MAR	BDL	.040 <T	.060 <T	.030 <T
APR	IMP	IMP	.140 <T	.070 <T
	.080 <T	.	.	.
MAY	BDL	BDL	.090 <T	BDL
JUN	BDL	.050 <T	.140 <T	BDL
JUL	BDL	BDL	.090 <T	BDL
AUG	BDL	.040 <T	.100 <T	BDL
SEP	BDL	BDL	.100 <T	BDL
OCT	BDL	BDL	BDL	BDL
NOV	BDL	BDL	.040 <T	BDL
DEC	BDL	.030 <T	.120 <T	BDL
ALUMINUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = 100.(A4)
JAN	19.720	23.200	25.520	23.200
FEB	46.400	45.240	40.600	40.600
MAR	26.680	33.640	39.440	44.080
APR	IMP	IMP	44.080	46.400
	29.000	.	.	.
MAY	44.080	266.800	150.800	139.200
JUN	66.000	30.000	36.000	31.000
JUL	47.000	53.000	43.000	45.000
AUG	60.000	72.000	42.000	32.000
SEP	53.000	57.000	59.000	47.000
OCT	70.000	61.000	55.000	52.000
NOV	75.000	75.000	64.000	71.000
DEC	51.000	98.000	90.000	100.000
ARSENIC (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 50.0 (A1)
JAN	.950 <T	.360 <T	.420 <T	.410 <T
FEB	.810 <T	.370 <T	.360 <T	.470 <T
MAR	1.400	.990 <T	.960 <T	.860 <T
APR	IMP	IMP	.590 <T	.320 <T
	1.300	.	.	.
MAY	1.800	1.900	1.500	1.100
JUN	1.600	.690 <T	1.100	1.200
JUL	2.500	1.100	1.000 <T	.750 <T
AUG	2.200	1.200	1.200	1.100
SEP	3.500	1.500	1.600	1.600
OCT	2.400	.950 <T	1.300	.870 <T
NOV	1.200	.740 <T	.710 <T	.570 <T
DEC	1.400	.500 <T	.470 <T	.420 <T
BARIUM (UG/L)				DET'N LIMIT = 0.020 GUIDELINE = 1000. (A1)
JAN	41.000	34.000	36.000	35.000

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
FEB	43.000	39.000	42.000	39.000
MAR	43.000	38.000	41.000	37.000
APR	IMP	IMP	39.000	35.000
	33.000	.	.	.
MAY	39.000	34.000	36.000	32.000
JUN	39.000	36.000	35.000	37.000
JUL	37.000	34.000	34.000	33.000
AUG	36.000	35.000	36.000	36.000
SEP	44.000	41.000	41.000	37.000
OCT	40.000	37.000	36.000	35.000
NOV	43.000	37.000	38.000	38.000
DEC	40.000	35.000	38.000	35.000
BORON (UG/L)				DET'N LIMIT = 0.200 GUIDELINE = 5000. (A1)
JAN	44.000	14.000 <T	22.000	13.000 <T
FEB	16.000 <T	16.000 <T	14.000 <T	33.000
MAR	24.000	19.000 <T	23.000	17.000 <T
APR	IMP	IMP	150.000	17.000 <T
	230.000	.	.	.
MAY	22.000	25.000	31.000	12.000 <T
JUN	13.000 <T	16.000 <T	16.000 <T	15.000 <T
JUL	39.000	34.000	17.000 <T	18.000 <T
AUG	48.000	17.000 <T	18.000 <T	43.000
SEP	37.000	38.000	28.000	35.000
OCT	25.000	23.000	20.000 <T	22.000
NOV	17.000 <T	16.000 <T	16.000 <T	17.000 <T
DEC	14.000 <T	12.000 <T	13.000 <T	13.000 <T
BERYLLIUM (UG/L)				DET'N LIMIT = 0.010 GUIDELINE = N/A
JAN	.030 <T	BDL	.050 <T	.040 <T
FEB	BDL	BDL	BDL	BDL
MAR	.110 <T	.070 <T	.070 <T	.100 <T
APR	IMP	IMP	.270 <T	BDL
	.750	.	.	.
MAY	.070 <T	.180 <T	.130 <T	.030 <T
JUN	BDL	BDL	BDL	.040 <T
JUL	.070 <T	.070 <T	BDL	BDL
AUG	.110 <T	BDL	BDL	.110 <T
SEP	BDL	BDL	BDL	BDL
OCT	.030 <T	.050 <T	BDL	BDL
NOV	BDL	.020 <T	.060 <T	.030 <T
DEC	BDL	.030 <T	BDL	BDL
CADMIUM (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1)
JAN	BDL	BDL	.160 <T	BDL
FEB	BDL	BDL	.060 <T	BDL
MAR	BDL	BDL	.110 <T	BDL

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	IMP	IMP	.180 <T	.650
	BDL	.	.	.
MAY	BDL	.070 <T	.100 <T	BDL
JUN	BDL	BDL	.130 <T	BDL
JUL	.080 <T	BDL	.120 <T	.070 <T
AUG	BDL	BDL	.270 <T	BDL
SEP	BDL	BDL	.300 <T	BDL
OCT	BDL	BDL	BDL	BDL
NOV	BDL	BDL	.130 <T	BDL
DEC	BDL	BDL	BDL	BDL
COBALT (UG/L)			DET'N LIMIT = 0.020 GUIDELINE = N/A	
JAN	.160 <T	.190 <T	.140 <T	.160 <T
FEB	.110 <T	.050 <T	.150 <T	.060 <T
MAR	.210 <T	.160 <T	.240 <T	.220 <T
APR	IMP	IMP	.070 <T	.310 <T
	.170 <T	.	.	.
MAY	.370 <T	.290 <T	.290 <T	.120 <T
JUN	.060 <T	.050 <T	.120 <T	.110 <T
JUL	.180 <T	.130 <T	.280 <T	.120 <T
AUG	.200 <T	.120 <T	.120 <T	.170 <T
SEP	.240 <T	.100 <T	.260 <T	.140 <T
OCT	.240 <T	.080 <T	.090 <T	.100 <T
NOV	.220 <T	.170 <T	.160 <T	.230 <T
DEC	.170 <T	.140 <T	.100 <T	.060 <T
CHROMIUM (UG/L)			DET'N LIMIT = 0.100 GUIDELINE = 50. (A1)	
JAN	6.700	.160 <T	.170 <T	BDL
FEB	.400 <T	BDL	BDL	2.700
MAR	.780 <T	.260 <T	.560 <T	.170 <T
APR	IMP	IMP	5.800	BDL
	6.500	.	.	.
MAY	.810 <T	.890 <T	.960 <T	.220 <T
JUN	.310 <T	.420 <T	BDL	.200 <T
JUL	5.500	4.800	.630 <T	.600 <T
AUG	5.100	.220 <T	.110 <T	4.400
SEP	3.700	4.000	2.200	3.600
OCT	3.500	3.200	1.400	2.700
NOV	.120 <T	BDL	BDL	BDL
DEC	.190 <T	BDL	BDL	.270 <T
COPPER (UG/L)			DET'N LIMIT = .100 GUIDELINE = 1000 (A3)	
JAN	.890 <T	.640 <T	130.000	8.200
FEB	1.500	.760 <T	140.000	6.600
MAR	1.700	1.000 <T	130.000	14.000
APR	IMP	IMP	160.000	18.000
	.930 <T	.	.	.

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	1.300	1.300	100.000	12.000
JUN	1.500	1.100	160.000	19.000
JUL	.860 <T	.890 <T	130.000	20.000
AUG	.980 <T	14.000	120.000	19.000
SEP	1.100	1.300	150.000	20.000
OCT	.780 <T	.870 <T	150.000	17.000
NOV	1.500	.600 <T	140.000	20.000
DEC	1.200	.740 <T	150.000	10.000
IRON (UG/L)				DET'N LIMIT = 4.000 GUIDELINE = 300. (A3)
JAN	44.000 <T	9.700 <T	56.000	BDL
FEB	87.000	11.000 <T	96.000	BDL
MAR	98.000	14.000 <T	94.000	46.000 <T
APR	IMP	IMP	97.000	8.400 <T
	79.000	.	.	.
MAY	100.000	29.000 <T	95.000	BDL
JUN	120.000	BDL	200.000	5.800 <T
JUL	100.000	7.000 <T	130.000	12.000 <T
AUG	110.000	52.000	190.000	BDL
SEP	100.000	10.000 <T	220.000	BDL
OCT	110.000	10.000 <T	280.000	8.500 <T
NOV	130.000	5.400 <T	67.000	5.100 <T
DEC	84.000	7.100 <T	95.000	6.900 <T
MERCURY (UG/L)				DET'N LIMIT = 0.010 GUIDELINE = 1.000 (A1)
JAN	.060	.050 <T	.	.070
FEB	BDL	BDL	.	.060
MAR	BDL	BDL	.	.090
APR	BDL	BDL	.	.060
	BDL	.	.	.
MAY	.020 <T	BDL	.	.060
JUN	BDL	.020 <T	.	.120
JUL	.030 <T	.020 <T	.	.120
AUG	BDL	.020 <T	.	.150
SEP	.030 <T	.030 <T	.	.210
OCT	.030 <T	.040 <T	.	BDL
NOV	.030 <T	.040 <T	.	BDL
DEC	.040 <T	.040 <T	.	BDL
MANGANESE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 50.0 (A3)
JAN	11.000	2.400	3.300	1.800
FEB	11.000	4.300	6.800	2.900
MAR	11.000	3.500	5.100	3.100
APR	IMP	IMP	8.200	4.500
	19.000	.	.	.
MAY	28.000	8.900	7.600	5.000
JUN	42.000	.790	5.600	.750

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DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JUL	110.000	1.100	4.400	1.100
AUG	83.000	2.300	5.400	1.100
SEP	62.000	2.600	6.800	1.600
OCT	44.000	2.000	4.800	1.900
NOV	39.000	1.200	2.700	.890
DEC	10.000	1.700	3.200	1.500
MOLYBDENUM (UG/L)				DET'N LIMIT = 0.020 GUIDELINE = N/A
JAN	.430 <T	.430 <T	.470 <T	.440 <T
FEB	.400 <T	.380 <T	.430 <T	.440 <T
MAR	.600	.660	.620	.540
APR	IMP	IMP	.410 <T	.450 <T
	.400 <T	.	.	.
MAY	.560	.750	.800	.480 <T
JUN	.600	.580	.630	.720
JUL	.730	.630	.710	.670
AUG	1.000	.700	.850	.970
SEP	.590	.740	.740	.710
OCT	.350 <T	.390 <T	.410 <T	.430 <T
NOV	.280 <T	.440 <T	.410 <T	.490 <T
DEC	.320 <T	.310 <T	.290 <T	.360 <T
NICKEL (UG/L)				DET'N LIMIT = 0.100 GUIDELINE = 50. (F3)
JAN	.930 <T	.800 <T	6.600	.800 <T
FEB	.380 <T	.240 <T	8.100	1.000 <T
MAR	.140 <T	.180 <T	13.000	.340 <T
APR	IMP	IMP	10.000	.600 <T
	1.100 <T	.	.	.
MAY	1.300 <T	1.400 <T	14.000	.770 <T
JUN	.810 <T	BDL	.640 <T	BDL
JUL	.530 <T	BDL	130.000	.530 <T
AUG	.880 <T	.560 <T	3.900	.640 <T
SEP	.860 <T	.470 <T	45.000	.500 <T
OCT	.200 <T	BDL	1.100 <T	BDL
NOV	1.800 <T	1.800 <T	39.000	1.100 <T
DEC	.430 <T	.540 <T	24.000	BDL
LEAD (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 50. (A1)
JAN	.360	.240	2.500	.170 <T
FEB	.230	.580	2.400	.070 <T
MAR	1.000	.420	2.100	.550
APR	IMP	IMP	2.500	.760
	.570	.	.	.
MAY	.830	.760	2.100	.520
JUN	1.100	.870	4.300	.860
JUL	1.000	.800	5.200	1.300
AUG	1.100	1.400	5.500	1.200

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	1.200	.920	8.300	1.200
OCT	.550	.430	4.100	.520
NOV	.740	.260	3.200	.580
DEC	.420	.210	2.700	.290
ANTIMONY (UG/L)				DET'N LIMIT = .050 GUIDELINE = 146. (D4)
JAN	.480	.580	.530	.490
FEB	.330	.410	.560	.410
MAR	.600	.560	.580	.620
APR	IMP	IMP	.600	1.300
	.410	.	.	.
MAY	.850	.790	.950	.770
JUN	.830	.840	.980	.990
JUL	.700	.680	.800	.570
AUG	.710	.770	.700	.750
SEP	.580	.510	.590	.530
OCT	.500	.440	.620	.480
NOV	.320	.540	.430	.570
DEC	.400	.540	.550	.490
SELENIUM (UG/L)				DET'N LIMIT = 0.200 GUIDELINE = 10. (A1)
JAN	.850 <T	BDL	BDL	BDL
FEB	1.200 <T	.280 <T	.740 <T	.880 <T
MAR	4.500 <T	2.000 <T	3.200 <T	3.500 <T
APR	IMP	IMP	2.900 <T	1.100 <T
	BDL	.	.	.
MAY	2.000 <T	BDL	2.300 <T	1.200 <T
JUN	3.100 <T	.570 <T	.910 <T	1.100 <T
JUL	2.200 <T	BDL	2.300 <T	2.400 <T
AUG	1.400 <T	1.900 <T	BDL	BDL
SEP	BDL	BDL	1.100 <T	BDL
OCT	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL
STRONTIUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = N/A
JAN	170.000	150.000	150.000	160.000
FEB	210.000	200.000	200.000	210.000
MAR	270.000	220.000	230.000	210.000
APR	IMP	IMP	190.000	180.000
	160.000	.	.	.
MAY	170.000	200.000	200.000	190.000
JUN	170.000	160.000	170.000	170.000
JUL	170.000	170.000	170.000	160.000
AUG	190.000	190.000	190.000	190.000
SEP	190.000	190.000	190.000	170.000
OCT	180.000	170.000	170.000	170.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
NOV	160.000	160.000	170.000	170.000
DEC	210.000	170.000	180.000	180.000
TITANIUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = N/A
JAN	3.600	2.100	2.100	2.500
FEB	7.600	4.800	3.500	3.200
MAR	9.300	6.500	4.400	4.400
APR	IMP	IMP	7.700	7.100
	7.500	.	.	.
MAY	8.700	6.100	4.300	5.800
JUN	10.000	6.300	5.400	5.300
JUL	11.000	7.800	5.900	6.100
AUG	9.300	6.900	4.800	4.800
SEP	8.900	7.700	5.900	5.600
OCT	7.600	5.300	5.100	4.200
NOV	5.800	3.900	2.400	2.500
DEC	9.000	6.000	5.100	5.400
THALLIUM (UG/L)				DET'N LIMIT = .010 GUIDELINE = 13. (D4)
JAN	BDL	BDL	BDL	BDL
FEB	.030 <T	.040 <T	.020 <T	BDL
MAR	BDL	BDL	BDL	.060 <T
APR	IMP	IMP	.170 <T	.190 <T
	.120 <T	.	.	.
MAY	.020 <T	BDL	BDL	.030 <T
JUN	.080 <T	BDL	BDL	BDL
JUL	BDL	BDL	BDL	BDL
AUG	BDL	BDL	BDL	BDL
SEP	BDL	BDL	BDL	BDL
OCT	BDL	.020 <T	.030 <T	.020 <T
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL
URANIUM (UG/L)				DET'N LIMIT = .020 GUIDELINE = 100.(B1)
JAN	.300	.050 <T	.060 <T	.060 <T
FEB	.250	.070 <T	.060 <T	.100 <T
MAR	.370	.140 <T	.160 <T	.140 <T
APR	IMP	IMP	.070 <T	.030 <T
	.400	.	.	.
MAY	.380	.420	.360	.220
JUN	.390	.070 <T	.100 <T	BDL
JUL	.420	.090 <T	.060 <T	.060 <T
AUG	.390	BDL	BDL	BDL
SEP	.360	BDL	.040 <T	BDL
OCT	.100 <T	BDL	BDL	BDL
NOV	.270	.050 <T	.070 <T	.080 <T
DEC	.250	.100 <T	.090 <T	.090 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
VANADIUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = N/A
JAN	.350 <T	.210 <T	.220 <T	.170 <T
FEB	.360 <T	.150 <T	.210 <T	.160 <T
MAR	.310 <T	.160 <T	.190 <T	.150 <T
APR	IMP	IMP	.200 <T	.140 <T
	.300 <T	.	.	.
MAY	.520	.600	.440 <T	.390 <T
JUN	.640	.440 <T	.460 <T	.380 <T
JUL	.620	.460 <T	.470 <T	.430 <T
AUG	.600	.620	.610	.450 <T
SEP	.790	.580	.660	.490 <T
OCT	.880	.450 <T	.640	.440 <T
NOV	.520	.240 <T	.250 <T	.220 <T
DEC	.380 <T	.230 <T	.330 <T	.270 <T
ZINC (UG/L)				DET'N LIMIT = .001 GUIDELINE = 5000. (A3)
JAN	2.100	2.200	160.000	6.700
FEB	3.100	2.400	260.000	4.200
MAR	4.000	2.300	230.000	9.200
APR	IMP	IMP	250.000	19.000
	3.100	.	.	.
MAY	3.300	3.400	120.000	9.100
JUN	3.000	3.900	270.000	16.000
JUL	3.100	3.500	180.000	17.000
AUG	2.300	5.000	190.000	14.000
SEP	3.900	2.300	290.000	14.000
OCT	1.400	1.800	250.000	9.700
NOV	5.000	2.600	190.000	15.000
DEC	2.800	1.800	220.000	7.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
	CHLOROAROMATICS			
HCB (NG/L)			DET'N LIMIT = 1.000	GUIDELINE = 10.0 (C1)
JAN	BDL	ILA	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	BDL	2.000 <T	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	INR
DEC	BDL	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
	PESTICIDES & PCB			
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000	GUIDELINE = 700 (G)
JAN	1.000 <T	ILA	.	BDL
FEB	1.000 <T	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	1.000 <T	BDL	.	BDL
AUG	BDL	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	INR
DEC	BDL	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
PHENOLICS (UG/L)	PHENOLICS		DET'N LIMIT = 0.2	GUIDELINE = 2.00 (A3)
JAN	2.600	2.000	.	.
FEB	4.800	3.600	.	.
MAR	2.000	1.600	.	.
APR	5.000	3.200	.	.
	3.200	.	.	.
MAY	3.200	3.600	.	.
JUN	1.800	.600 <T	.	.
JUL	2.000	.800 <T	.	.
AUG	1.200	.800 <T	.	.
SEP	1.000 <T	.800 <T	.	.
OCT	1.800	1.600	.	.
NOV	.800 <T	1.200	.	INR
DEC	1.600	1.400	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
VOLATILES				
BENZENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 5.0 (B1)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	.050 <T	BDL	.	.050 <T
JUL	BDL	BDL	.	BDL
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
TOLUENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 24.0 (B4)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	.100 <T
JUL	BDL	.100 <T	.	.050 <T
AUG	IU	.050 <T	.	.100 <T
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	.200 <T
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	.050 <T
ETHYLBENZENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 2.4 (B4)
JAN	BDL	.050 <T	.	BDL
FEB	BDL	.100 <T	.	.050 <T
MAR	BDL	.100 <T	.	BDL
APR	BDL	BDL	.	.050 <T
	BDL	.	.	.
MAY	BDL	.050 <T	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	.050 <T	.	BDL
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
M-XYLENE (UG/L)				DET'N LIMIT = .100 GUIDELINE = 300 (B4)
JAN	BDL	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
FEB	BDL	.200 <T	.	BDL
MAR	BDL	.200 <T	.	.100 <T
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
O-XYLENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 300 (B4)
JAN	BDL	BDL	.	BDL
FEB	.050 <T	.100 <T	.	BDL
MAR	BDL	.150 <T	.	.050 <T
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
STYRENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 46.5 (D2)
JAN	BDL	.100 <T	.	.050 <T
FEB	.100 <T	.150 <T	.	.100 <T
MAR	.100 <T	BDL	.	.050 <T
APR	.300 <T	.100 <T	.	.200 <T
	BDL	.	.	.
MAY	.100 <T	BDL	.	.100 <T
JUN	BDL	.050 <T	.	.050 <T
JUL	BDL	.150 <T	.	.100 <T
AUG	IU	.050 <T	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
CHLOROFORM (UG/L)				DET'N LIMIT = .100 GUIDELINE = 350 (A1+)
JAN	BDL	45.400	.	46.200
FEB	BDL	48.000	.	40.300
MAR	.200 <T	54.000	.	54.900

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	.200 <T	41.300	.	48.800
	BDL	.	.	.
MAY	BDL	80.000	.	84.400
JUN	BDL	50.000	.	49.000
JUL	BDL	49.300	.	45.100
AUG	IU	19.000	.	50.400
SEP	BDL	78.200	.	79.000
OCT	.100 <T	80.500	.	72.700
NOV	.500 <T	82.700	.	76.700
DEC	BDL	98.300	.	86.800
111, TRICHLOROETHANE (UG/L)				DET'N LIMIT = .020 GUIDELINE = 200 (D1)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	.080 <T	BDL	.	BDL
APR	.040 <T	BDL	.	.040 <T
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	.100 <T
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	.060 <T	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
DICHLOROBROMOMETHANE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 350 (A1+)
JAN	BDL	7.300	.	7.100
FEB	BDL	6.900	.	6.250
MAR	BDL	7.200	.	7.400
APR	BDL	4.700	.	5.900
	BDL	.	.	.
MAY	BDL	5.400	.	5.850
JUN	BDL	5.700 APS	.	5.400 APS
JUL	BDL	7.600	.	7.600
AUG	IU	11.200	.	15.150 APS
SEP	BDL	8.300	.	8.100
OCT	BDL	6.700	.	8.300
NOV	BDL	7.000	.	6.850
DEC	BDL	6.500	.	6.250
CHLORODIBROMOMETHANE (UG/L)				DET'N LIMIT = .100 GUIDELINE = 350 (A1+)
JAN	BDL	.500 <T	.	.500 <T
FEB	BDL	.400 <T	.	.400 <T
MAR	BDL	.400 <T	.	.600 <T
APR	BDL	.300 <T	.	BDL
	BDL	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	BDL	.200 <T	.	.400 <T
JUN	BDL	.400 <T	.	.400 <T
JUL	BDL	.600 <T	.	.600 <T
AUG	IU	4.800	.	3.200
SEP	BDL	.900 <T	.	.800 <T
OCT	BDL	.400 <T	.	.600 <T
NOV	BDL	.500 <T	.	.900 <T
DEC	BDL	.400 <T	.	.400 <T

T-CHLOROETHYLENE (UG/L) DET'N LIMIT = .050 GUIDELINE = 10.0 (C2)

JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	.050 <T	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	.050 <T
JUN	BDL	BDL	.	BDL
JUL	BDL	.050 <T	.	BDL
AUG	IU	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL

BROMOFORM (UG/L) DET'N LIMIT = .200 GUIDELINE = 350 (A1+)

JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
	BDL	.	.	.
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	IU	.400 <T	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL

TOTL TRIHALOMETHANES (UG/L) DET'N LIMIT = .500 GUIDELINE = 350 (A1)

JAN	BDL	53.200	.	53.800
FEB	BDL	55.300	.	46.950
MAR	BDL	61.600	.	62.900
APR	BDL	46.300	.	54.700
	BDL	.	.	.
MAY	BDL	85.600	.	90.650
JUN	BDL	56.100	.	54.800

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DESERONTO WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JUL	BDL	57.500	.	53.300
AUG	1U	35.400	.	68.750
SEP	BDL	87.400	.	87.900
OCT	BDL	87.600	.	81.200
NOV	.500 <T	90.200	.	84.450
DEC	BDL	105.150	.	93.500

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML(A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000. (B4)
PENTACHLOROPHENOL	NG/L	50.	30000. (B4)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	^{o}C	N/A	<15 ^{o}C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500(A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20(A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100(A4)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5(A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40(F2)
SULPHATE	MG/L	.200	500. (A3)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)
METALS			
ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	10. (F3)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
PESTICIDES & PCB			
ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	900000. (B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE(THIODAN SULPHATE)	NG/L	4.0	N/A

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
HEPTACHLOR EPOXIDE	NG/L	1.0	3000.	(A1)
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO(A)ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	200000.	(B4)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	(B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	20000.	(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION(AZINPHOSMETHYL)	NG/L	N/A	20000.	(B1)
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(A1)
METHYLTRITHION	NG/L	20.	N/A	

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
PARATHION	NG/L	20.	50000.	(B1)
PHORATE (THIMET)	NG/L	20.	2000.	(B3)
RELDAN	NG/L	20.	N/A	
RONNEL	NG/L	20.	N/A	
AMINOCARB	NG/L	N/A	N/A	
BENONYL	NG/L	N/A	N/A	
BUX (METALKAMATE)	NG/L	2000.	N/A	
CARBOFURAN	NG/L	2000.	90000.	(B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000.	(G)
DIALLATE	NG/L	2000.	30000.	(H)
EPTAM	NG/L	2000.	N/A	
IPC	NG/L	2000.	N/A	
PROPOXUR (BAYGON)	NG/L	2000.	90000.	(G)
SEVIN (CARBARYL)	NG/L	200.	90000.	(B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000.	(D3)
VOLATILES				
BENZENE	UG/L	.050	5.0	(B1)
TOLUENE	UG/L	.050	24.0	(B4)
ETHYLBENZENE	UG/L	.050	2.4	(B4)
PARA-XYLENE	UG/L	.100	300.	(B4)
META-XYLENE	UG/L	.100	300.	(B4)
ORTHO-XYLENE	UG/L	.050	300.	(B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0	(D1)
ETHLYENE DIBROMIDE	UG/L	.05	.05	G)
METHYLENE CHLORIDE	UG/L	.500	50.	(B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70.	(D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A	
CHLOROFORM	UG/L	.100	350.	(A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200.	(D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0	(D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0	(B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0	(D5)
TRICHLOROETHYLENE	UG/L	.100	50.	(B1)
DICHLOROBROMOMETHANE	UG/L	.050	350.	(A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60	(D4)
CHLORODIBROMOMETHANE	UG/L	.100	350.	(A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0	(C2)
BROMOFORM	UG/L	.200	350.	(A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17	(D4)
CHLOROBENZENE	UG/L	.100	60.	(D5)
1,4-DICHLOROBENZENE	UG/L	.100	1.0	(B4)
1,3-DICHLOROBENZENE	UG/L	.100	130.	(G)
1,2-DICHLOROBENZENE	UG/L	.050	3.0	(B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A	
TOTAL TRIHALOMETHANES	UG/L	.500	350.	(A1)
STYRENE	UG/L	.05	140.	(D5)